

34GD5A

Beam Power Tube

7-PIN MINIATURE TYPE
With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	34	volts
Current	$0.1 \pm 6\%$	amp
Warm-up time (Average)	20	sec

Direct Interelectrode Capacitances

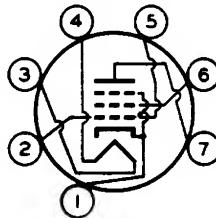
(Approx.):^a

Grid No.1 to plate	0.6	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	12	μf
Plate to cathode & grid No.3, grid No.2, and heater	6	μf

Mechanical:

Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	$2" \pm 3/32"$
Diameter	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7CV

Pin 1-Cathode,
Grid No.3
Pin 2-Grid No.1
Pin 3-Heater



Pin 4-Heater
Pin 5-Grid No.1
Pin 6-Grid No.2
Pin 7-Plate

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	150	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	130	max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Negative-bias value	50	max.	volts
Positive-bias value	0	max.	volts
GRID-No.2 INPUT	1.1	max.	watts
PLATE DISSIPATION	5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 ^b	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface)	250	max.	°C



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Typical Operation and Characteristics:

Plate Voltage	110	volts	
Grid-No.2 Voltage	110	volts	(
Grid-No.1 Voltage	-7.5	volts	
Peak AF Grid-No.1 Voltage	7.5	volts	
Zero-Signal Plate Current	35	ma	
Zero-Signal Grid-No.2 Current	3	ma	
Plate Resistance (Approx.)	13000	ohms	
Transconductance	5700	μ mhos	
Load Resistance	2500	ohms	(
Total Harmonic Distortion	10	%	
Max.-Signal Power Output	1.4	watts	

Maximum Circuit Values:

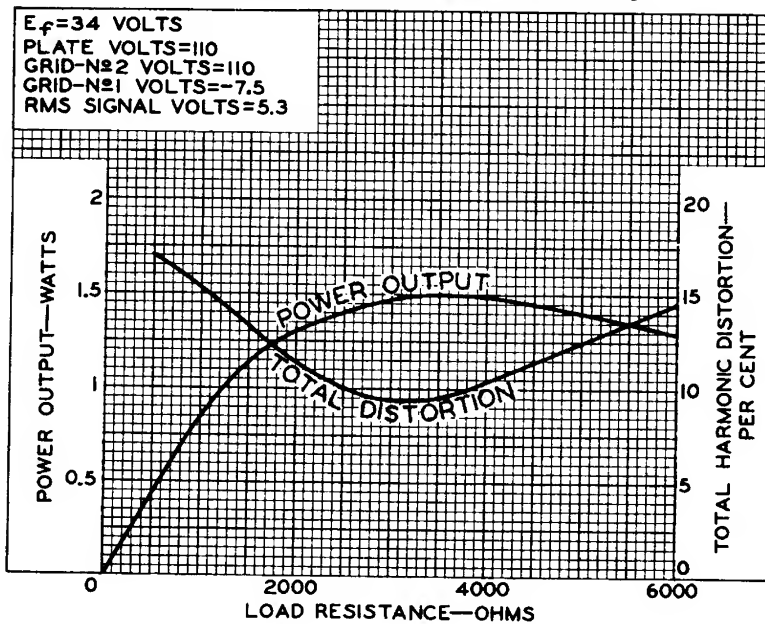
Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max.	megohm	
For cathode-bias operation	0.5 max.	megohm	(

^a Without external shield.

^b The dc component must not exceed 100 volts.

OPERATION CHARACTERISTICS



92CS-10780

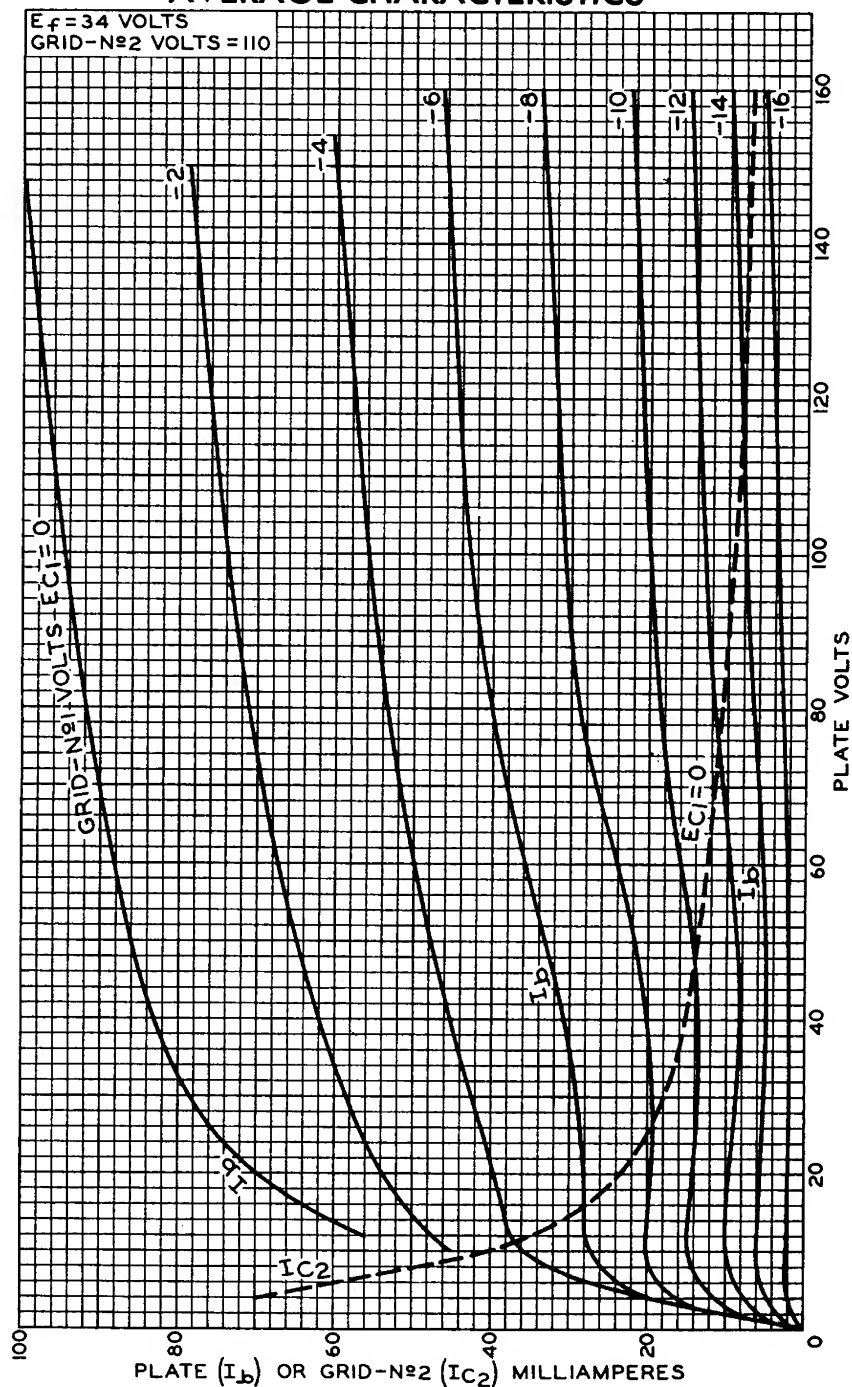
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AVERAGE CHARACTERISTICS



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